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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

06/09/2009

EXAMINER

YOUNG & THOMPSON 209 Madison Street Suite 500 ALEXANDRIA, VA 22314

ALBERTALLI, BRIAN LOUIS ART UNIT PAPER NUMBER 2626

DATE MAILED: 06/09/2009

	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
•	10/634,744	08/06/2003	Hubert Lemoine	0579-1014	7857

TITLE OF INVENTION: METHOD OF AUDIO-INTONATION CALIBRATION

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
•	nonprovisional	NO	\$1510	\$300	\$0	\$1810	09/09/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further ndicated unless correcte maintenance fee notifical	correspondence includired below or directed oth tions.	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification of a) specifying a new co	of ma orrespo	intenance fees will ondence address; an	be mailed to the current d/or (b) indicating a separate	correspondence address as arate "FEE ADDRESS" for
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							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	TOR	A	ITORNEY DOCKET NO.	CONFIRMATION NO.
10/634,744	08/06/2003	•	Hubert Lemoine		•	0579-1014	7857
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EXAM	INER	ART UNIT	CLASS-SUBCLASS				
ALBERTALLI,		2626	704-276000 2. For printing on the				
Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			(I) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
PLEASE NOTE: Uni recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	oletion of this form is NO	data will appear on th T a substitute for filing (B) RESIDENCE: (Cl	ne pate an ass	ent. If an assignee signment. nd STATE OR COU	JNTRY)	ocument has been filed for
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a. The following fee(s) a	are submitted:	48	<ul> <li>Payment of Fee(s): (I</li> <li>A check is enclose</li> </ul>		e first reapply any p	previously paid issue fee	shown above)
Publication Fee (N	To small entity discount p		Payment by credit card. Form PTO-2038 is attached.				
Advance Order - #	The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).						
_ ~ .	<b>tus</b> (from status indicated s SMALL ENT1TY statu					ENTITY status. See 37 C	
NOTE: The Issue Fee and nterest as shown by the I	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other th				ne assignee or other party in
Authorized Signature					Date		
Typed or printed name					-		
This collection of inform in application. Confident ubmitting the completed his form and/or suggesti Sox 1450, Alexandria, V Mexandria, Virginia 223	tiality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DO	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th ONOT SEND FEES OR (	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or reta s estim ndivid fficer, S TO	ain a benefit by the nated to take 12 min ual case. Any comr U.S. Patent and Tra THIS ADDRESS. S	public which is to file (an utes to complete, includir nents on the amount of ti demark Office, U.S. Dep END TO: Commissioner	d by the USPTO to process) g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,

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10/634,744 08/06/2003		Hubert Lemoine	0579-1014 7857	
466 75	590 06/09/2009		EXAM	INER
YOUNG & THOMPSON			ALBERTALLI,	BRIAN LOUIS
209 Madison Street Suite 500 ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			2626 DATE MAILED: 06/09/200	9

# **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 724 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 724 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
	10/634,744	LEMOINE ET AL.	
Notice of Allowability	Examiner	Art Unit	
	BRIAN L. ALBERTALLI	2626	
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this apport or other appropriate communication GHTS. This application is subject to	olication. If not included will be mailed in due course. <b>THIS</b>	
1. This communication is responsive to 25 March 2009.			
2. X The allowed claim(s) is/are <u>1-7,9,13 and 16-21</u> .			
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority documents have</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ol> * Certified copies not received:	been received. been received in Application No		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give</li> </ol>			
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mus  (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date	on's Patent Drawing Review (PTO- s Amendment / Comment or in the C 84(c)) should be written on the drawin he header according to 37 CFR 1.121(	Office action of ngs in the front (not the back) of d).	
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),	
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7.		
Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit	ent of Reasons for Allowance		
of Biological Material	9.		

### **DETAILED ACTION**

### Allowable Subject Matter

Claims 1-7, 9, 13, and 16-21 are allowed.

The following is an examiner's statement of reasons for allowance:

Independent claims 1 and 19 require emitting a model audio signal to be imitated to the auditory organs of a subject, performing a spectral analysis on the model audio signal, emitting an imitation audio signal that corresponds to the model audio signal while a subject is practicing a language to be studied, and correcting the imitation audio signal as a function of a comparison between the spectrum of the imitation audio signal and the model audio signal.

Cave et al. disclose a method of altering the spectrum of a user's speech signal when practicing a language to be studied. However, the spectrum of the user's speech signal is corrected based on the language being learned. Thus, Cave et al. do not disclose or suggest first emitting a model audio signal and performing a spectral analysis on the model audio signal to use in the correction step.

Jeong discloses a method of switching between a model audio signal and a user's imitation audio signal so that the user can compare the two audio signals. However, Jeong does not disclose or suggest modifying the spectrum of the user's imitation audio signal and further does not disclose or suggest performing a spectral analysis on the model audio signal.

Yoshioka et al. disclose a karaoke device that analyses model audio signal to be imitated and adjusts the spectrum of an imitation audio signal to match the model audio

signal. However, since Yoshioka et al. is applied to a karaoke application, there is no teaching or suggestion to first emit the model audio signal to be imitated, because a user would sing along as the music was playing, and not listen to the target singer prior to providing an imitation audio signal. Further, Yoshioka et al. do not disclose or suggest practicing a language being studied.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRIAN L. ALBERTALLI whose telephone number is (571)272-7616. The examiner can normally be reached on Monday-Thursday, 8 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Hudspeth can be reached on (571) 272-7843. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 2626

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David R Hudspeth/ Supervisory Patent Examiner, Art Unit 2626

BLA 5/26/09